

<b>Study Programme :BSc in Ecology</b>			
<b>Level:</b> bachelor			
<b>Course title:</b> Protection against noise			
<b>Status:</b> elective			
<b>ECTS:</b> 6			
<b>Requirements:</b> Mechanics, Thermodynamics, Electromagnetism			
<b>Learning objectives</b> To introduce students to the basic characteristics, adverse effects and protective measures against noise.			
<b>Learning outcomes</b> After completion of learning the subject content and student should have developed: - General skills: reading professional literature, acquire the basic knowledge to measure basic physical quantities of the noise, student can compare measured quantities with existing normative acts and propose safeguards. - Specific skills: Students are trained that on the basis of the measured noise parameters and depending on the type of noise source make selection of procedures to solve the problem of noise.			
<b>Syllabus</b>  <i>Theoretical instruction</i> The formation of sound propagation. Objective and subjective characteristics of sound waves. Frequency spectra. Structure and function of hearing. Physiological quantities of sound. Fletcher-Munson curves. Instrument for measuring sound levels. Standardisation of the harmful effects of noise. Standardization of noise in relation to the protection of hearing, speech intelligibility and psychological effects. Assessing the risk of occupational damage. The spatial acoustics. Sound absorption. Sound isolation. Communal (municipal) noise. Administrative and organizational, educational and medical measures for protection against noise pollution.  <i>Practical instruction</i> The exercises that follow the content of lectures: Measurement of noise by sonometer. The processing of measured data. Including students in the monitoring of traffic noise.			
<b>Weekly teaching load</b>			Other:
Lectures: 3	Exercises: 1	Other forms of teaching: 1	